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(54) COMBUSTIVITY IMPROVING METHOD FOR  
DIESEL ENGINE FUEL

(57) Abstract:

**PURPOSE:** To suppress generation of black smoke from fuels of lower quality and enhance the ignition performance by dissolving previously a gas including oxygen in the fuel through pressurization, and by atomizing by pressure the fuel containing oxygen into the combustion chamber of engine.

**CONSTITUTION:** Fuel 2 is sent by a pump 3 to a pressure tank 5, and the air pressurized by an air pressurization pump 4 takes the gaseous phase 6 to be dissolved in the fuel stored in the tank 5 with the aid of pressurization. The fuel is sent through a piping 8 to a fuel injection pump 9 of the engine to be atomized into the combustion chamber 11 out of an atomizing nozzle 10. Thus generation of black smokes from a fuel of lower quality, i.g. having a high carbon-to- hydrogen ratio, can be suppressed as well as the ignition performance enhanced.

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